

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
7 July 2005 (07.07.2005)

PCT

(10) International Publication Number  
**WO 2005/060863 A1**

(51) International Patent Classification<sup>7</sup>: A61C 8/00

(74) Agent: OLSSON, Gunnar; Nobel Biocare AB (publ),  
P.O. Box 5190, S-402 26 Göteborg (SE).

(21) International Application Number:  
PCT/SE2004/001917

(22) International Filing Date:  
20 December 2004 (20.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0303460-0 22 December 2003 (22.12.2003) SE

(71) Applicant (for all designated States except US): NOBEL  
BIOCARE AB (PUBL) [SE/SE]; Box 5190, S-402 26  
Göteborg (SE).

(72) Inventors; and

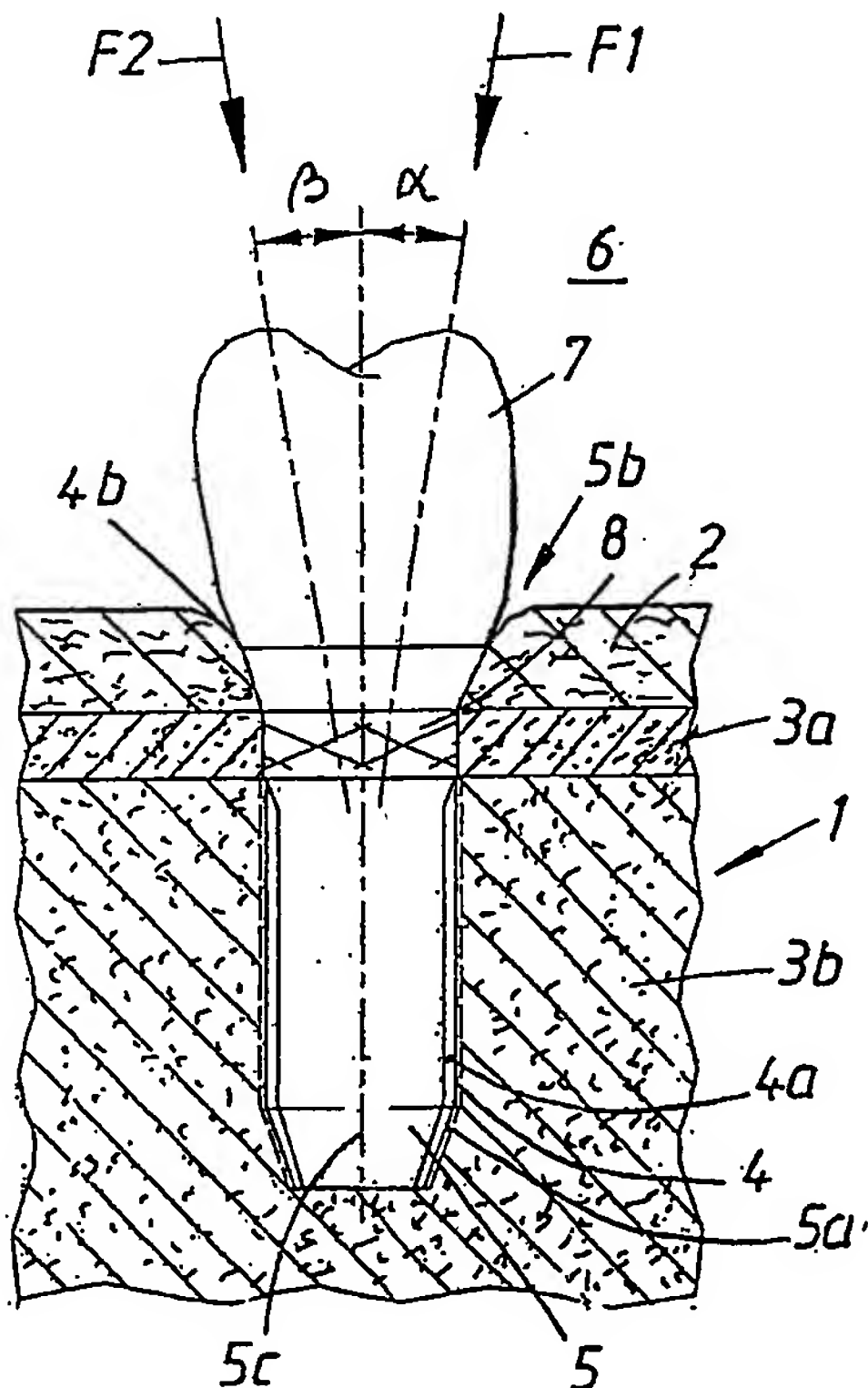
(75) Inventors/Applicants (for US only): JÖRNEUS, Lars  
[SE/SE]; Riabergsvägen 7B, S-430 30 Frillesås (SE).  
DURIC, Sanel [SE/SE]; c/o Lundgren, Odingsgatan 22B,  
S-411 03 (SE).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: IMPLANT



(57) Abstract: An implant (5) can be fitted in an implantation site in a hole (4) formed in a jaw bone (1) where it is exposed to an impinging force or impinging forces (F1, F2). The implant can comprise one or more peripherally extending surfaces (5d) which are arranged at its upper/outer portion (5b) and which can be placed against a jaw bone part (3) at the outlet opening (4b) of the hole. Each surface (5d) is provided with a pattern (8) of grooves and/or recesses. Some of these are designed so that, in the implantation site, they extend substantially at right angles to, and if appropriate parallel to, said forces (F1, F2) when these assume principal directions differing from the longitudinal direction (5c) of the implant. By virtue of this arrangement, it is possible to achieve effective load-bearing in different implantation situations.

WO 2005/060863 A1



Published:

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*